

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P506649

Luminaire Tested: **24PD-45-PL1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-45-PL1-L850
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

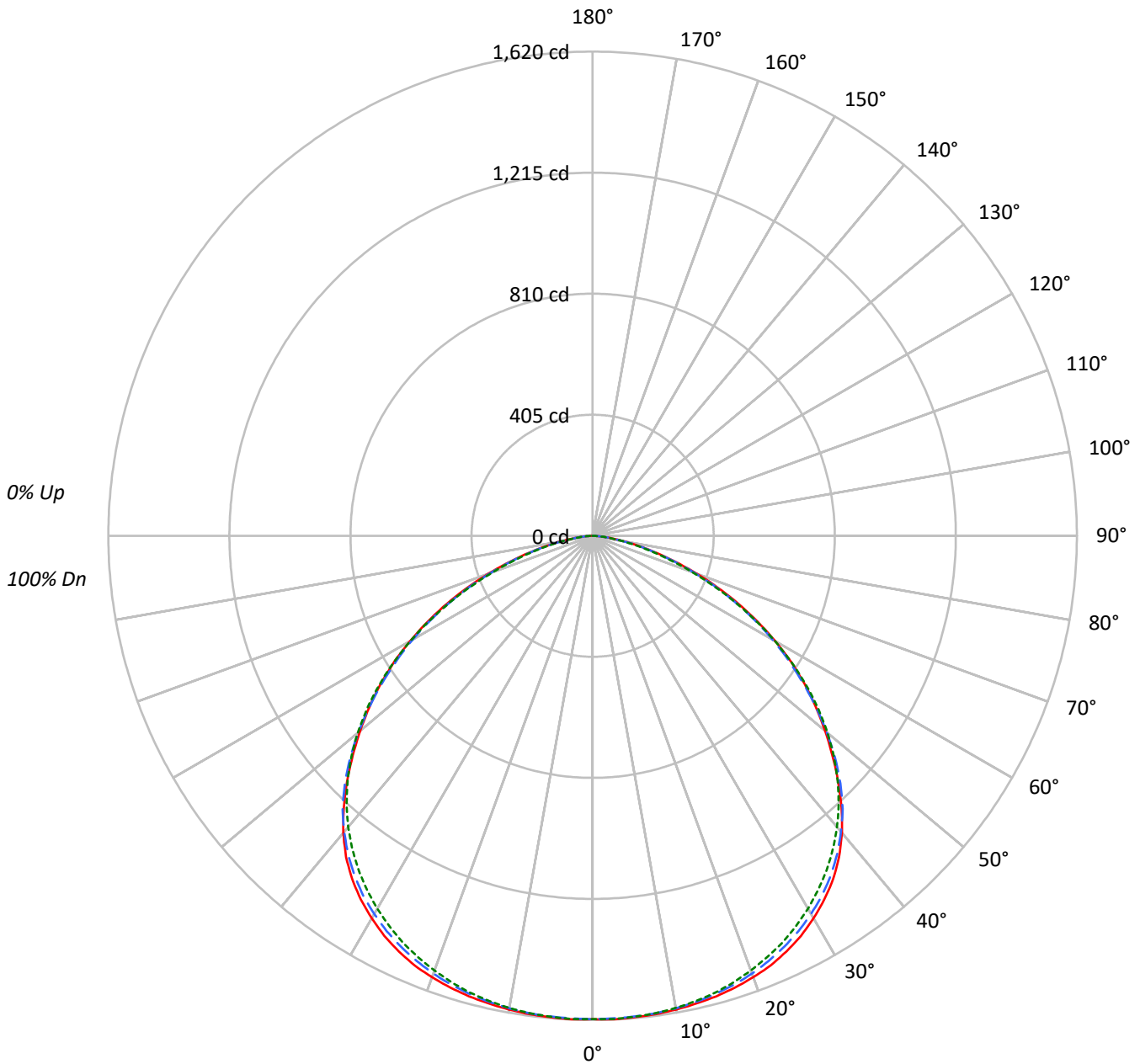
Lumens per Lamp: N/A
Luminaire Lumens: 4639.6 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P506649

CATALOG NUMBER: 24PD-45-PL1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P506649

CATALOG NUMBER: 24PD-45-PL1-L850

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72																			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2176	2176	2176
5°	2184	2181	2181
10°	2199	2193	2191
15°	2223	2211	2205
20°	2250	2232	2216
25°	2278	2252	2229
30°	2296	2270	2238
35°	2304	2281	2243
40°	2279	2271	2234
45°	2210	2230	2205
50°	2124	2139	2147
55°	2032	2016	2046
60°	1901	1870	1894
65°	1710	1677	1675
70°	1456	1423	1390
75°	1146	1121	1075
80°	820	796	752
85°	485	479	445



TEST NUMBER: P506649

CATALOG NUMBER: 24PD-45-PL1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	3.3
10°-20°	448.9	9.7
20°-30°	699.8	15.1
30°-40°	865.9	18.7
40°-50°	897.7	19.3
50°-60°	772.9	16.7
60°-70°	524.4	11.3
70°-80°	234.0	5.0
80°-90°	42.1	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1302.6	28.1
0°-40°	2168.5	46.7
0°-60°	3839.1	82.7
0°-90°	4639.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4639.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1617	1615	1615	1615	1615	154
15°	1596	1591	1588	1584	1583	451
25°	1534	1529	1517	1506	1502	707
35°	1402	1398	1388	1373	1365	875
45°	1161	1166	1172	1167	1159	895
55°	866	867	860	869	872	773
65°	537	539	527	521	526	531
75°	220	222	216	211	207	239
85°	31	32	31	31	29	43
90°	0	0	0	0	0	



TEST NUMBER: P506649

CATALOG NUMBER: 24PD-45-PL1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.3	1617.3	1617.3	1617.3	1617.3
2.5°	1619.5	1616.0	1616.4	1616.9	1618.6
5°	1617.3	1615.1	1614.7	1614.7	1615.1
7.5°	1614.7	1612.0	1611.6	1611.1	1611.1
10°	1609.8	1607.1	1605.4	1604.5	1604.0
12.5°	1603.1	1600.0	1597.8	1596.1	1594.7
15°	1595.6	1591.2	1587.6	1584.1	1582.8
17.5°	1585.0	1581.0	1574.8	1569.0	1566.8
20°	1571.7	1567.7	1558.9	1550.9	1547.8
22.5°	1556.2	1550.4	1539.4	1530.5	1526.1
25°	1534.5	1528.7	1517.2	1506.2	1501.7
27.5°	1509.3	1503.9	1491.5	1478.3	1472.9
30°	1477.8	1474.3	1461.0	1446.4	1440.6
32.5°	1442.8	1439.3	1427.8	1411.4	1404.7
35°	1402.5	1398.5	1388.4	1373.3	1365.3
37.5°	1354.7	1353.4	1343.6	1328.1	1320.6
40°	1297.6	1300.2	1292.7	1279.4	1271.9
42.5°	1232.5	1238.2	1238.2	1225.8	1218.3
45°	1161.2	1166.5	1171.8	1167.4	1159.0
47.5°	1088.1	1093.9	1100.1	1101.8	1094.7
50°	1014.6	1018.1	1022.1	1030.1	1025.7
52.5°	941.5	942.8	941.5	952.1	951.3
55°	866.2	866.7	859.6	869.3	872.4
57.5°	787.8	789.2	777.7	783.0	789.6
60°	706.4	707.7	694.8	695.7	703.7
62.5°	622.2	624.0	611.1	608.0	615.1
65°	537.2	539.4	526.6	520.8	526.1
67.5°	452.6	455.3	443.3	436.2	437.5
70°	370.2	372.4	361.8	355.2	353.4
72.5°	291.8	294.1	285.6	279.0	275.9
75°	220.5	222.3	215.7	210.8	206.8
77.5°	158.5	159.9	154.6	151.0	147.0
80°	105.8	106.3	102.7	100.5	97.0
82.5°	63.3	63.8	61.6	60.7	58.0
85°	31.4	31.9	31.0	31.0	28.8
87.5°	11.1	10.6	11.1	11.1	9.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)